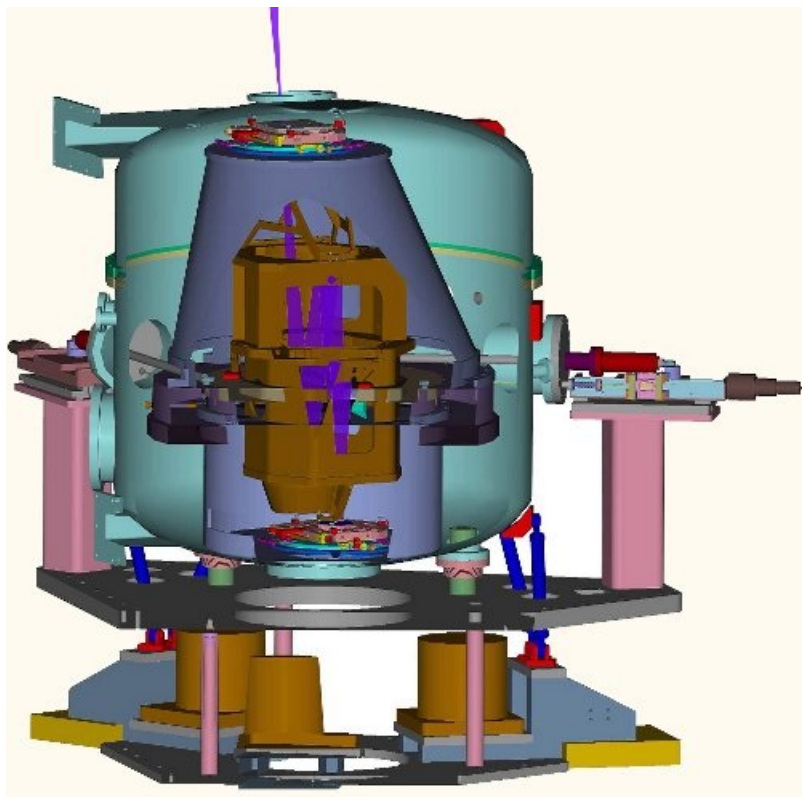


Mechanical Engineering & Systems Design

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The CXRO engineering staff provides a uniquely diverse group of skill sets to the CXRO scientific community in a combined effort to make a scientific theory a proven reality. The technical team specializes in state-of-the-art micro-mechanical systems, electro-mechanical devices, computerized electronic motion control systems, and ultra high vacuum (UHV) system controls and equipment.

Working closely with the scientific staff, the engineering team designed, built and continues to provide technical support to five beamlines located at the Advance Light Source.

X-ray Microscopy, EUVL Defect Inspection, EUVL Interferometry and two beamlines for X-ray Calibrations and Standards. These beamlines are designed to operate at peak performance twenty-four hours a day seven days a week.

Capabilities include but are not limited to: Design, fabrication and fine tuning of beamlines and vacuum equipment, Cryogenics, Multi-layer coated EUV optics, Development, design & fabrication of electronic circuitry, In-vacuum cameras and controls, Kirk/Patrick-Baez optical systems, Custom UHV vacuum chambers, Survey and alignment, Computer aided design (CAD), and a fully equipped precision machine shop.
